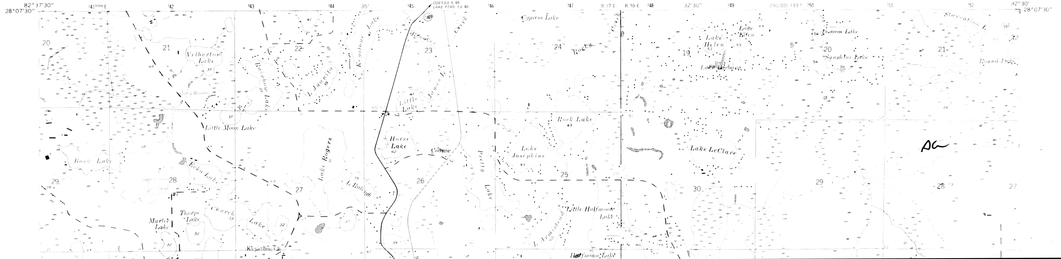
I 49.89/2:85(15) map B9

ORIGINAL

I 49.89/2:85(15)map B9

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CITRUS PARK QUADRANGLE
FLORIDA - HILLSBOROUGH CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

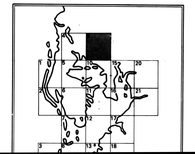


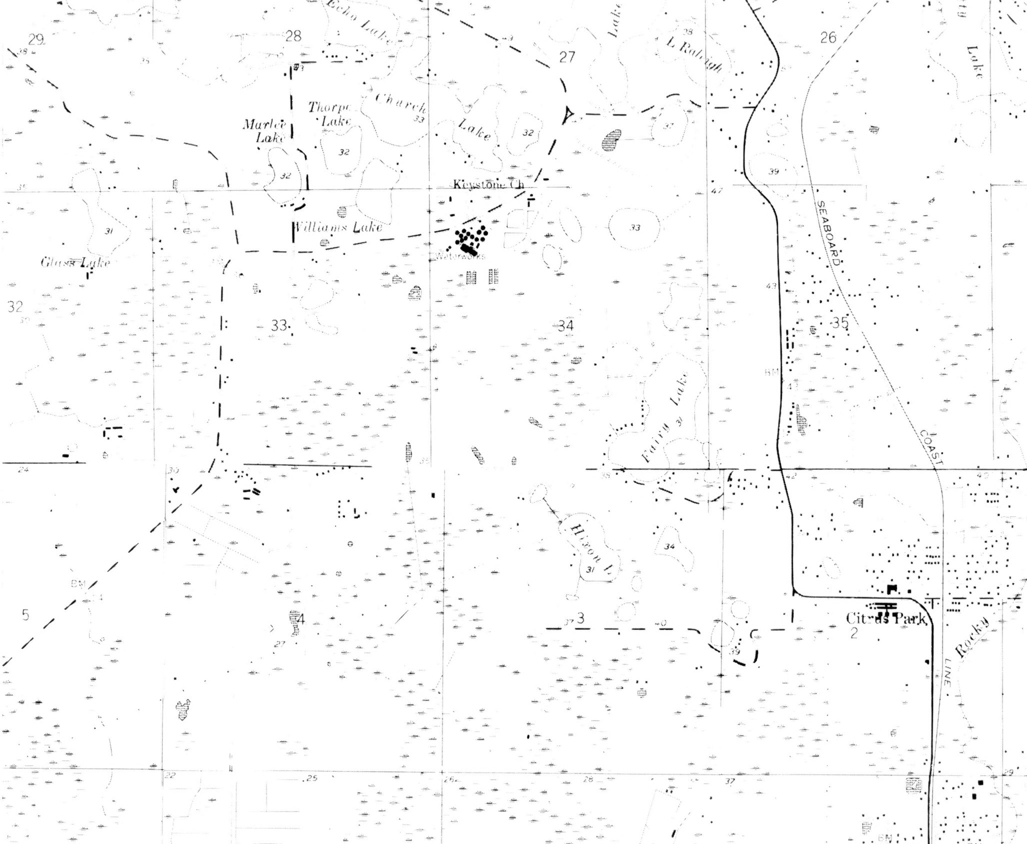
MAP B9

TAMPA BAY ENVIRONMENTAL ATLAS

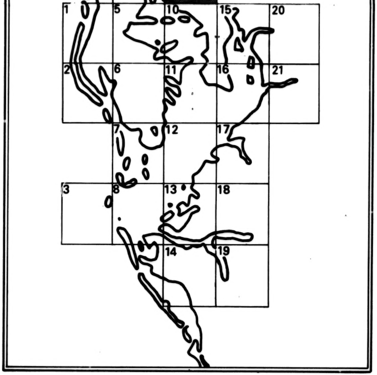
WATER RESOURCES

CITRUS PARK




29
28
Echo Lake
27
L. Raleigh
Lake
26
Lake
Thorpe Lake
Church Lake
Marlee Lake
32
32
33
32
37
39
Keystone Ch
47
Williams Lake
Waterworks
33
31
Glass Lake
SEABOARD
43
32
33
34
35
BM
41
Fairy Lake
31
COAST
24
30
36
42
40
Hixon L
34
31
BM
5
4
27
3
37
40
39
Citrus Park
2
Rocky
LINE
22
25
26
28
37
29
BM

25
30
29
28
27
Little Halfmoon Lake
L. Armistead
Halfmoon Lake
44
54
36
31
32
33
34
Creek
Creek
55
1
6
5
4
59
39
37
46
45
Trailer Park
30
Brushy
Lake


1
5
10
15
20
2
6
11
16
21
7
12
17
3
8
13
18
14
19

Scale 1:24,000

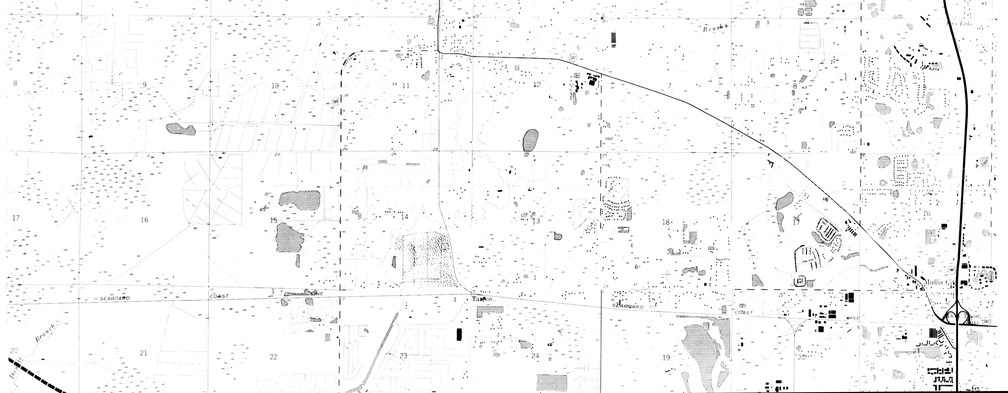
1984

TOPICAL MAPS IN THIS ATLAS:
A. BIOLOGICAL RESOURCES
B. WATER RESOURCES

Produced by U.S. Fish and Wildlife Service
Projection and 1,000 meter grid, zone 17: Universal Transverse Mercator
10,000-foot grid ticks based on Florida coordinate system, east and west zones

Overlay material compiled in 1984 from latest available data obtained from Federal, State and Local government agencies and other sources.

There is no map A19 due to a lack of data.



Overlay material compiled in 1984 from latest available data obtained from Federal, State and Local government agencies and other sources.

There is no map A19 due to a lack of data.

LEGEND

MEAN ANNUAL MID-DEPTH SPECIFIC CONDUCTIVITY ISOPLETH (WATER QUALITY) CONTOUR MAP
Five year mean annual specific conductivity September 1978 - August 1983 (mmhos)

POINT SOURCE DISCHARGES *

Industrial Point Source Discharge. Q is permitted capacity in total gallons per day (tgd) or in millions of gallons per day (mgd).

Municipal Point Source Discharge. Q is permitted capacity in total gallons per day (tgd) or millions of gallons per day (mgd).

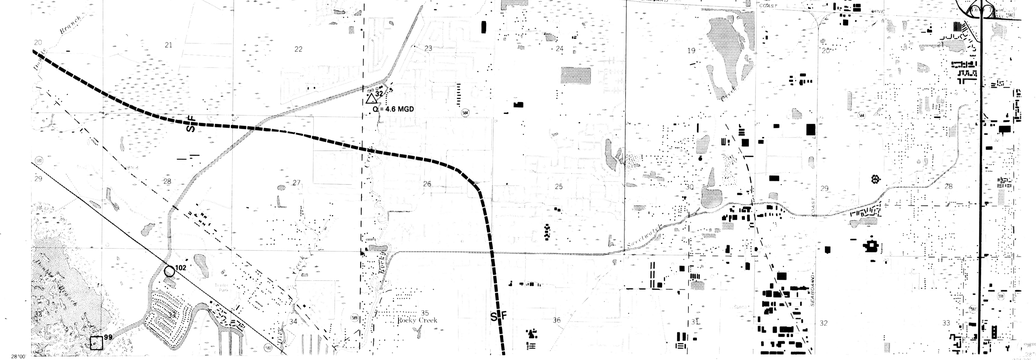
DREDGE SPOIL DISPOSAL SITES

TIDE STATION *
(National Ocean Service)

Active tide station. The tide station number is listed next to the symbol.

Inactive tide station location. The tide station number is listed next to the symbol.

WATER QUALITY SAMPLING STATION *
(Hillsborough County Environmental Protection Commission)
Five year seasonal means, Sept. 1978 - Aug. 1983



THE TAMPA BAY ENVIRONMENTAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, FOLLOWING ITS BUSINESS SERVICES NATIONAL STRATEGY.

N.O.S. TIDE STATIONS: Index of tide stations for the state of Florida. National Ocean Service, Rockville, Md. 1981.

Active tide station. The tide station number is listed next to the symbol.

Inactive tide station location. The tide station number is listed next to the symbol.

WATER QUALITY SAMPLING STATION *
(Hillsborough County Environmental Protection Commission)
Five year seasonal means, Sept. 1978 - Aug. 1983

BATHYMETRY
The contour interval is 2.0 meters with an ocdal 1.0 meter supplemental contour line added to better define shoals and inshore tidal flats.

INTERTIDAL ZONE
This zone demarcates the area exposed and flooded by the tides and occurs between the line and the shore.

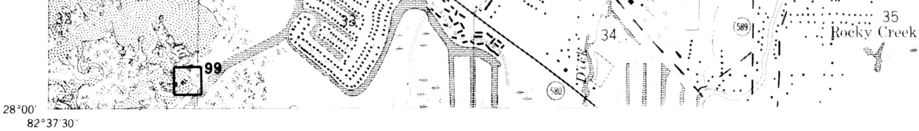
GENERALIZED SEDIMENT MAP
- Sand
- Shelly Sand
- Silty Sand
- Clayey Sand
- Sandy Clay
- Silt

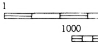
NET TIDAL CURRENT
Resultant tidal current. The direction is indicated by the arrow and the discharge range is feet per second
- 0.01 - 0.10 ft/sec
- 0.11 - 0.20 ft/sec
- 0.21 - 0.30 ft/sec
- 0.31 - 0.50 ft/sec
- >= 0.50 ft/sec

FRESHWATER/SALTWATER INTERFACE
(U.S. Geological Survey 1979)
250 mg/l line of equal chloride concentration in the upper part of Floridan aquifer

MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)

1.0
1.1
1.25
4.5
5.0
5.6
6.3
2.8
3.2
3.6
2.5





THE TAMPA BAY ENVIRONMENTAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES NATIONAL COASTAL ECOSYSTEMS TEAM (FWS/OBS) FOR COASTAL PLANNERS, DECISION MAKERS AND THE GENERAL PUBLIC, TO DETERMINE AND EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS, AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. THE STUDY AREA INCLUDES A MAJOR PORTION OF THE COASTAL COUNTIES OF PINELLAS, HILLSBOROUGH, MANATEE, AND A SMALL PORTION OF SARASOTA. THERE IS NO ATTEMPT, IN THE DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

PRIMARY SOURCES OF MAPPED INFORMATION

SALINITY: Conductivity for Tampa Bay water quality sampling stations Sept. 1978 - August 1983. Hillsborough County Environmental Protection Commission.

POINT SOURCE DISCHARGES: Computer printout of industrial and municipal point source discharges in West Central Florida. Florida Dept. of Environmental Regulation, 1983.

DREDGE SPOIL DISPOSAL AREAS: Dredge and Spoil easement location maps. Florida Dept. of Natural Resources.

N.O.S. TIDE STATIONS: Index of tide stations for the state of Florida. National Ocean Service, Rockville, Md. 1981.

WATER QUALITY: Total chlorophyll, conductivity, turbidity, temperature and total nitrogen data for Tampa Bay water quality stations, Sept. 1978 - August 1983. Hillsborough County Environmental Protection Commission.

BATHYMETRIC: Bathymetric map to St. Petersburg Quadrangle, N.O.S. 1978.

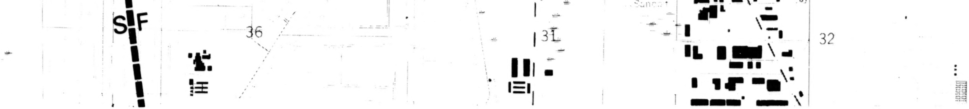
INTERTIDAL ZONE: Nautical Chart #'s 11410, 11413, 11414 and 11425. N.O.S., Rockville, Md. 1983.

SEDIMENTS: Sediments, oceanographic observations and Floristic data for Tampa Bay, Florida and adjacent waters, 1961-1965, Taylor and Saloman, 1969.

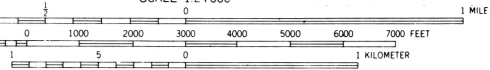
TIDAL CURRENTS: Changes in tidal flow, circulation and flushing caused by dredge and fill in Tampa Bay, Florida. U.S. Geological Survey Open File Report #84-447. Goodwin, 1984.

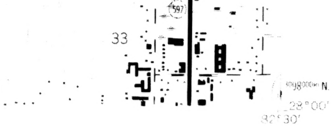
FRESHWATER-SALTWATER INTERFACE: Position of the Freshwater-Saltwater interface in the upper part of the Floridan aquifer, Southwest Florida, 1979. U.S.G.S. water resources open-file report 82-90. Causseaux and Fretwell, 1982.

FOR COMPLETE REFERENCE SEE MAP NARRATIVE



SCALE 1:24 000





→ 0.11 - 0.20 ft/sec

→ 0.21 - 0.30 ft/sec

→ 0.31 - 0.50 ft/sec

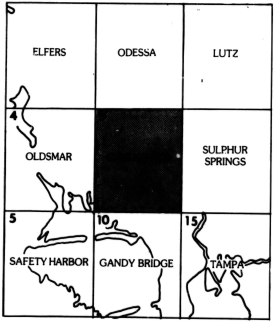
→ > 0.50 ft/sec

F
▬▬▬▬▬
S

FRESHWATER/SALTWATER INTERFACE

(U.S. Geological Survey 1979)
250 mg/l line of equal chloride
concentration in the upper part
of Floridan aquifer.

*Symbols appearing with numbers are described more fully in the narrative



Supplemental Legend for Water Quality Stations on This Map

Station #102 Lat. 28°00'32" Long. 82°36'29"

PARAMETER	SPRING (3-5)	SUMMER (6-8)	FALL (9-11)	WINTER (12-2)	ANNUAL (1-12)
Total Chlorophyll (ug/l)	28.2	55.0	47.2	32.9	40.8
Conductivity (mmhos)	30696	25514	23737	28959	27227
Turbidity (NTU'S)	6.6	6.1	5.8	5.3	6.0
Temperature (°C)	23.5	29.4	24.9	15.9	23.4
Total Nitrogen (mg/l)	1.05	0.85	1.27	0.81	0.99

Note: Specific conductivity values on the supplemental legend should be in μmhos.

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MICROCOPY RESOLUTION TEST CHART
NBS 1010a
(ANSI and ISO TEST CHART No. 2)

MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A